

Title (en)
SINGLE STAGE MOLDING MACHINE FOR RADIAL TIRES

Title (de)
EINSTUFIGE MASCHINE ZUM FORMEN VON RADIALREIFEN

Title (fr)
MACHINE A MOULER EN UN TEMPS POUR PNEUS RADIAUX

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EP 0951986 A1 19991027 (EN)

Application
EP 97911510 A 19971111

Priority
• JP 9704096 W 19971111
• JP 29836096 A 19961111

Abstract (en)
A single-stage type building machine (1) for radial tires includes a main drum (2) for winding a radial carcass ply member, locking means for fixedly engaging bead reinforcing members to predetermined portions on both sides of the carcass ply member, turning-up means for turning-up predetermined portions of the carcass ply member around the respective bead reinforcing members, and a sub-drum (6) spaced from a driving device (3) for the main drum (6), for winding at least one of belt member and tread rubber member. The turning-up means includes inner and outer double side bladders on both sides of the main drum (1), which can be inflated by injection of pressurized fluid, and pressing can devices (20, 30) detachably arranged on both sides of the main drum. Each pressing can device (20, 30) has an actuator (21, 31) and a hard cylindrical portion (22, 33) which is attached to one end of the actuator (21, 31) and smaller in inner diameter than the maximum inflation diameter of the outer side bladder. The outer side bladder in its inflated condition is received in the cylindrical portion (22, 33) when the cylindrical portion (22, 33) is displaced by operating the actuator. The carcass ply portion can be selectively turned-up either by inflation of both the inner and the outer side bladders, or by inflation of the outer side bladder alone in combination with displacement of the cylindrical portion of the pressing can device. <IMAGE>

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IPC 8 full level
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